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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/696,502	CSAPO ET AL.				
Office Action Summary	Examiner	Art Unit				
	Marivelisse Santiago-Cordero	2617				
The MAILING DATE of this communication app						
Period for Reply	•					
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION (36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status _.	•					
1)⊠ Responsive to communication(s) filed on 31 A	ugust 2006.					
	s action is non-final.					
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-19</u> is/are pending in the application	☑ Claim(s) <u>1-19</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdra	4a) Of the above claim(s) is/are withdrawn from consideration.					
Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-19</u> is/are rejected.	Claim(s) <u>1-19</u> is/are rejected.					
7) Claim(s) is/are objected to.	Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/o	or election requirement.					
Application Papers						
9) The specification is objected to by the Examine	er. į					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) ☐ The oath or declaration is objected to by the E	xaminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
• • • •	 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 					
3. Copies of the certified copies of the prior						
application from the International Burea	•	od III tillo National Otago				
* See the attached detailed Office action for a list		ed.				
Attachment(s)						
1) X Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	6) Other:	atent Application				

DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1-19 have been considered but are moot in view of the new ground(s) of rejection.

Claim Objections

2. Claims 11-19 are objected to because of the following informalities: claim 11 ends with two periods instead of one. Appropriate correction is required.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

4. Claims 11-19 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Regarding claim 11, the limitation "without performing an intervening hard handoff between the first base transceiver station and the transition base transceiver station" was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

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Applicant is welcomed to point out where in the specification the Examiner can find

support for this limitation, if Applicant believes otherwise.

5. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the

subject matter which the applicant regards as his invention.

6. Claims 11-19 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for

failing to particularly point out and distinctly claim the subject matter which applicant regards as

the invention.

Regarding claim 11, the limitation "without performing an intervening hard handoff

between the first base transceiver station and the transition base transceiver station" does not

comply with 35 U.S.C. 112. The quoted portion is a negative limitation rendering the claim

indefinite because it is attempt to claim invention by excluding what applicants did not invent

rather than by particularly and distinctly pointing out what they did invent. In re Schechter, 205

F.2d 185, 98 USPO 144 (CCPA 1953).

Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on

sale in this country, more than one year prior to the date of application for patent in the United States.

8. Claims 1-4, 6-9, and 11-14 are rejected under 35 U.S.C. 102(b) as being anticipated by

Jolma (Patent No.: 6,011,971).

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Regarding claim 1, Jolma discloses for use in a first wireless network, a border base station capable of providing reliable hard handoffs between the first wireless network and a second wireless network, the border base station comprising:

a base station controller (Fig. 4, reference BSC1) operable to manage communications resources within the first wireless network (Fig. 4; note the network encompassed by BSC1 and its respective base transceiver stations and respective coverage areas);

a first base transceiver station (Fig. 4, reference BTS12) coupled to the base station controller (Fig. 4), the first base transceiver station operable to provide communication for a mobile station in the first wireless network (Fig. 4), and

a transition base transceiver station (Fig. 4, reference BTS11) coupled to the base station controller (Fig. 4) and located in proximity to a second base transceiver station (Fig. 4, reference BTS21), the transition base transceiver station operable to provide communication for the mobile station in the second wireless network (Fig. 4; note the network encompassed by BSC2 and its respective base transceiver stations and respective coverage areas), the second base transceiver station part of the second wireless network (Fig. 4; note the network encompassed by BSC2 and its respective base transceiver stations and respective coverage areas) and operable to provide communication for the mobile station in the second wireless network (Fig. 4),

wherein the base station controller is further operable to perform a hard handoff for the mobile station between the transition base transceiver station and the second base transceiver station (col. 5, lines 25-30 and 50-51).

Regarding claim 2, Jolma discloses the border base station of Claim 1, the base station controller further operable to perform a soft handoff for the mobile station between the first base transceiver station and the transition base transceiver station (col. 5, lines 39-41).

Regarding claim 3, Jolma discloses the border base station of Claim 2, the base station controller operable to perform the soft handoff for the mobile station between the first base transceiver station and the transition base transceiver station when the mobile station reaches an overlap region between the first wireless network and the second wireless network (Fig. 4; col. 5, lines 33-41).

Regarding claim 4, Jolma discloses the border base station of Claim 2, the base station controller operable to perform the hard handoff for the mobile station between the transition base transceiver station and the second base transceiver station when the mobile station reaches a border for a hard handoff region (Fig. 4, col. 5, lines 35-39 and 50-53), the hard handoff region a portion of the second wireless network (Fig. 4).

Regarding claim 6, Jolma discloses a first wireless network comprising a plurality of border base stations, each one of the border base stations capable of providing reliable hard handoffs between the first wireless network and a second wireless network, each border base station comprising:

a base station controller (Fig. 4, reference BSC1) operable to manage communications resources within the first wireless network (Fig. 4; note the network encompassed by BSC1 and its respective base transceiver stations and respective coverage areas);

a first base transceiver station coupled to the base station controller (Fig. 4, reference BTS12), the first base transceiver station operable to provide communication for a mobile station in the first wireless network (Fig. 4); and

a transition base transceiver station (Fig. 4, reference BTS11) coupled to the base station controller (Fig. 4) and located in proximity to a second base transceiver station (Fig. 4, reference BTS21), the transition base transceiver station operable to provide communication for the mobile station in the second wireless network (Fig. 4; note the network encompassed by BSC2 and its respective base transceiver stations and respective coverage areas), the second base transceiver station part of the second wireless network (Fig. 4) and operable to provide communication for the mobile station in the second wireless network (Fig. 4),

wherein the base station controller is further operable to perform a hard handoff for the mobile station between the transition base transceiver station and the second base transceiver station (col. 5, lines 25-30 and 50-51).

Regarding claim 7, Jolma discloses the wireless network of Claim 6, the base station controller further operable to perform a soft handoff for the mobile station between the first base transceiver station and the transition base transceiver station (col. 5, lines 39-41).

Regarding claim 8, Jolma discloses the wireless network of Claim 7, the base station controller operable to perform the soft handoff for the mobile station between the first base transceiver station and the transition base transceiver station when the mobile station reaches an overlap region between the first wireless network and the second wireless network (Fig. 4; col. 5, lines 33-41).

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Regarding claim 9, Jolma discloses the wireless network of Claim 7, the base station controller operable to perform the hard handoff for the mobile station between the transition base transceiver station and the second base transceiver station when the mobile station reaches a border for a hard handoff region (Fig. 4; col. 5, lines 35-39 and 50-53), the hard handoff region a portion of the second wireless network (Fig. 4).

Regarding claim 11, Jolma discloses for use in a border base station in a first wireless network, a method for providing reliable hard handoffs between the first wireless network and a second wireless network, the method comprising:

performing a soft handoff for a mobile station between a first base transceiver station (Fig. 4, reference BTS12) in the first wireless network (Fig. 4; note the network encompassed by BSC1 and its respective base transceiver stations and respective coverage areas) and a transition base transceiver station (Fig. 4, reference BTS11) in the first wireless network (Fig. 4) (col. 5, lines 39-41); and

performing a hard handoff for the mobile station between the transition base transceiver station and a second base transceiver station (Fig. 4, reference BTS21) in the second wireless network (Fig. 4; note the network encompassed by BSC2 and its respective base transceiver stations and respective coverage areas) (col. 5, lines 50-51), the transition base transceiver station located in proximity to the second base transceiver station (Fig. 4), without performing an intervening hard handoff between the first base transceiver station and the transition base transceiver station (Fig. 4; col. 5, lines 39-53).

Regarding claim 12, Jolma discloses the method of Claim 11, performing the soft handoff for the mobile station comprising performing the soft handoff when the mobile station reaches an

overlap region between the first wireless network and the second wireless network (Fig. 4; col. 5,

lines 33-41).

Regarding claim 13, Jolma discloses the method of Claim 11, performing the hard handoff for the mobile station comprising performing the hard handoff when the mobile station reaches a border for a hard handoff region (Fig. 4; col. 5, lines 35-39 and 50-53), the hard

handoff region a portion of the second wireless network (Fig. 4).

Regarding claim 14, Jolma discloses the method of Claim 11, performing the soft handoff between the first base transceiver station and the transition base transceiver station comprising performing the soft handoff from the first base transceiver station to the transition base transceiver station (col. 5, lines 39-41), and performing the hard handoff between the transition base transceiver station and the second base transceiver station comprising performing the hard handoff from the transition base transceiver station to the second base transceiver station (col. 5, lines 50-51).

Claim Rejections - 35 USC § 103

9. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

10. Claims 5, 10, and 15-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jolma.

Regarding claims 5 and 10, Johna discloses the border base station of Claim 1 and the wireless network of claim 6 (see above), but fail to specifically disclose the first base transceiver station operable to provide communication for the mobile station in the first wireless network at a first carrier frequency, the transition base transceiver station operable to provide

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communication for the mobile station in the second wireless network at the first carrier frequency, and the second base transceiver station operable to provide communication for the mobile station in the second wireless network at a second carrier frequency.

However, Johna does suggests the first base transceiver station operable to provide communication for the mobile station in the first wireless network at a first carrier frequency and the transition base transceiver station operable to provide communication for the mobile station in the second wireless network at the first carrier frequency, since Johna discloses that a soft handoff occurs between the first base transceiver station and the transition base transceiver station (col. 5, lines 39-41). It was notoriously well known in the art at the time of invention by applicant that soft handoff occurs between the same frequencies. Consequently, if Johna discloses a soft handoff between the first base transceiver station and the transition base transceiver station, then, Johna does suggests that they both operate at the same frequency, i.e., at a first carrier frequency as claimed.

In addition, Jolma suggests the second base transceiver station operable to provide communication for the mobile station in the second wireless network at a second carrier frequency, since Jolma discloses that a hard handoff occurs between the transition base transceiver station and the second base transceiver station (col. 5, lines 50-51). It was notoriously well known in the art at the time of invention by applicant that hard handoff occurs between different frequencies. Consequently, if Jolma discloses a hard handoff between the transition base transceiver station and the second base transceiver station, and, as stated above, the transition base transceiver station operates at the first carrier frequency, then, Jolma does suggests that second base transceiver station operates at a second carrier frequency as claimed.

Therefore, it would have been obvious to one of ordinary skill in this art at the time of invention by applicant to operate the first transceiver station and the transition base transceiver station at a first carrier frequency and the second transceiver station at a second carrier frequency as suggested by Jolma because for the advantages of performing soft and hard handoffs as appropriate and guaranteeing the continuity of a call.

Regarding claim 15, Jolma discloses the method of claim 11 (see above). Jolma fails to specifically disclose performing the soft handoff between the first base transceiver station and the transition base transceiver station comprising performing the soft handoff from the transition base transceiver station to the first base transceiver station, and performing the hard handoff between the transition base transceiver station and the second base transceiver station comprising performing the hard handoff from the second base transceiver station to the transition base transceiver station.

However, it was notoriously well known in the art at the time of invention by applicant that mobile stations may be in constant movement and may return through the same path to the originating point (system).

Therefore, it would have been obvious to one of ordinary skill in this art at the time the invention was made to perform the soft handoff between the first base transceiver station and the transition base transceiver station comprising performing the soft handoff from the transition base transceiver station to the first base transceiver station of Jolma, and performing the hard handoff between the transition base transceiver station and the second base transceiver station comprising performing the hard handoff from the second base transceiver station to the transition

base transceiver station of Jolma because the mobile station may be in constant movement; consequently, returning through the same path to the originating system.

Regarding claim 16, Jolma discloses the method of claim 11, further comprising: providing communication for the mobile station at a first carrier frequency in the first wireless network (Fig. 4; note that it is inherent that communication is provided at a first carrier frequency in the wireless network), but fail to specifically disclose providing communication for the mobile station at the first carrier frequency and at a second carrier frequency in the second wireless network.

However, Jolma does suggests further comprising: providing communication for the mobile station at the first carrier frequency and at a second carrier frequency in the second wireless network (Fig. 4; col. 5, lines 33-53; note that the second network is encompassed by BSC2 and its respective base transceiver stations and respective coverage areas, including coverage area 41, which overlaps with the first network, encompassed by BSC1 and its respective base transceiver stations and respective coverage areas). See rational previously used for claims 5 and 10 above and note that both BTS11 and BTS21 are in overlapping coverage area 41, where the hard handoff occurs.

Regarding claim 17, in the obvious combination, Jolma discloses providing communication for the mobile station at the first carrier frequency in the first wireless network comprising providing communication for the mobile station at the first carrier frequency with the first base transceiver station (Fig. 4; note that as stated above for claim 16, it is inherent that communication is provided at the first carrier frequency in the first wireless network).

Regarding claim 18, in the obvious combination, Jolma fails to specifically disclose providing communication for the mobile station at the first carrier frequency in the second wireless network comprising providing communication for the mobile station at the first carrier frequency with the transition base transceiver station.

However, Johna does suggests providing communication for the mobile station at the first carrier frequency in the second wireless network comprising providing communication for the mobile station at the first carrier frequency with the transition base transceiver station (See rational previously used for claims 5 and 10 above).

Regarding claim 19, in the obvious combination, Jolma fails to specifically disclose providing communication for the mobile station at the second carrier frequency in the second wireless network comprising providing communication for the mobile station at the second carrier frequency with the second base transceiver station.

However, Johna does suggests providing communication for the mobile station at the second carrier frequency in the second wireless network comprising providing communication for the mobile station at the second carrier frequency with the second base transceiver station (See rational previously used for claims 5 and 10 above).

Conclusion

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marivelisse Santiago-Cordero whose telephone number is (571) 272-7839. The examiner can normally be reached on Monday through Friday from 7:30am to 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Trost can be reached on (571) 272-7872. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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